Groundwater Condition
REPORT | SANTA CLARA COUNTY

November 2017

- Groundwater Storage: Total storage at the end of 2017 is predicted to fall within Stage 1 (Normal) of the District's Water Shortage Contingency Plan.

- Santa Clara Plain:

    - The October managed recharge estimate is 7,900 acre-feet. The year-to-date managed recharge estimate is 52,500 acre-feet, or 118% of the five-year average.
    - The September groundwater pumping estimate is 7,300 acre-feet. Estimated groundwater pumping from January to September is 54,100 acre-feet, which is 86% of the five-year average.
    - The groundwater level in the Santa Clara Plain (San Jose) index well is about 4 feet higher than last October and 28 feet higher than the five-year average.

- Coyote Valley:

    - The October managed recharge estimate is 900 acre-feet. The year-to-date managed recharge estimate is 8,700 acre-feet, or 98% of the five-year average.
    - The September groundwater pumping estimate is 1,300 acre-feet. Estimated groundwater pumping from January to September is 10,000 acre-feet, which is 118% of the five-year average.
    - The groundwater level in the Coyote Valley index well is about 1 foot higher than last October and 14 feet higher than the five-year average.

- Llagas Subbasin:

    - The October managed recharge estimate is 2,200 acre-feet. The year-to-date managed recharge estimate is 14,300 acre-feet, or 84% of the five-year average.
    - The September groundwater pumping estimate is 4,400 acre-feet. Estimated groundwater pumping from January to September is 30,000 acre-feet, which is 91% of the five-year average.
    - The groundwater level in the Llagas Subbasin (San Martin) index well is about 11 feet higher than last October and 32 feet higher than the five-year average.

Contact Us For questions, contact **Bassam Kassab** at **(408) 630-2091**

Santa Clara Valley Water District

Groundwater Recharge

Compared to the October average of the last five years (2012-2016), the estimated managed recharge for October 2017 is higher for in the Santa Clara Plain and the Llagas Subbasin and about the same in the Coyote Valley. Managed recharge is dependent on several factors, including water availability, regulatory requirements, and facility maintenance schedules. Figures 1, 2, and 3 compare monthly managed recharge in 2017 to the five-year average.

Figure 1 - Estimated Managed Recharge in the Santa Clara Plain

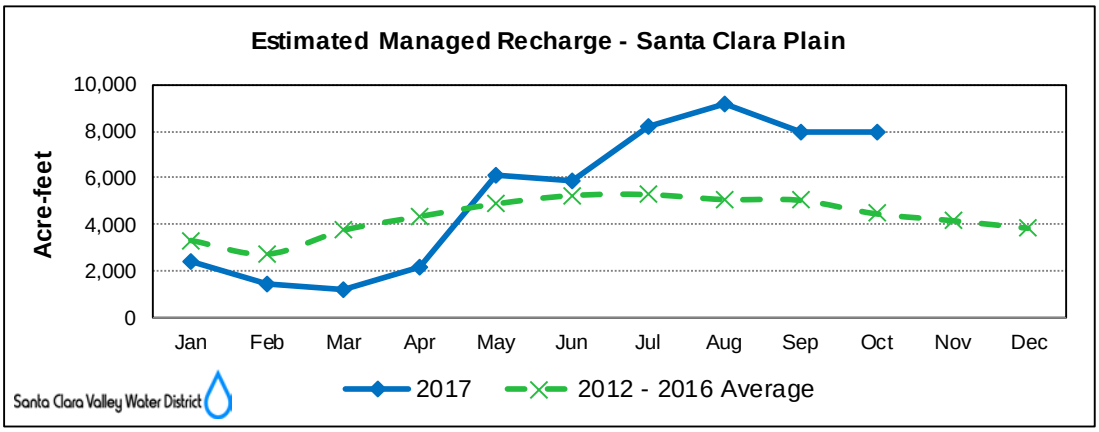


Figure 2 - Estimated Managed Recharge in the Coyote Valley

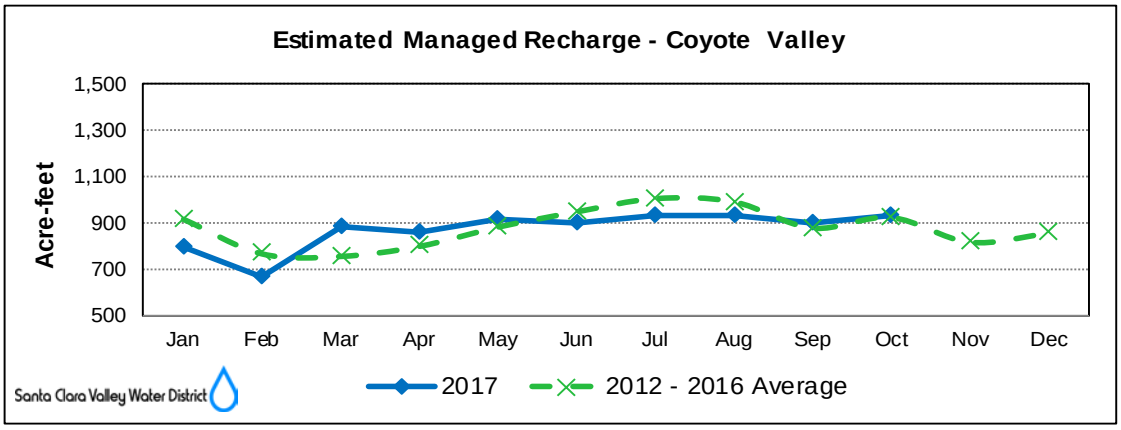
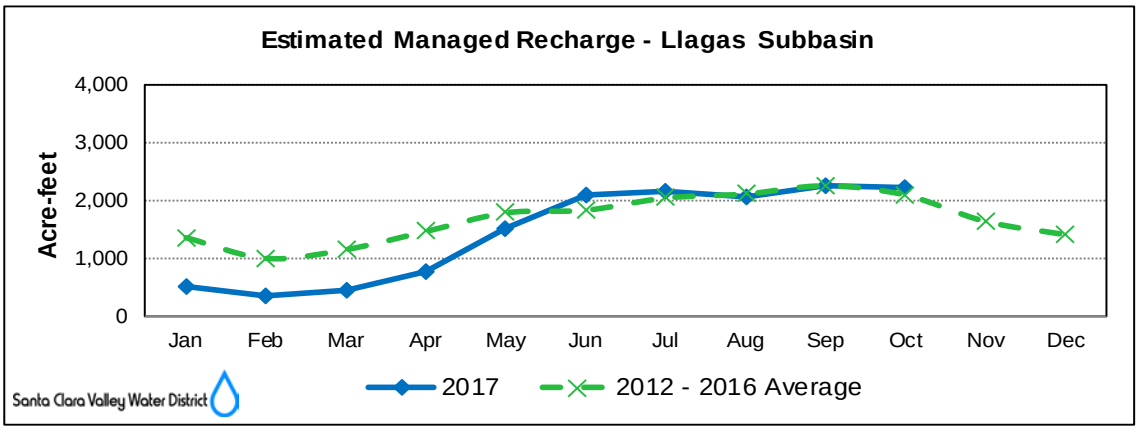


Figure 3 - Estimated Managed Recharge in the Llagas Subbasin



Groundwater Pumping

Estimated pumping for September 2017 (the most recent month with pumping data available from retailers) is higher than the September average of the last five years (2012-2016) for the Coyote Valley and lower for the Santa Clara Plain and the Llagas Subbasin. Figures 4, 5, and 6 compare monthly estimated groundwater pumping through September 2017 to the five-year average.

Figure 4 – Estimated Santa Clara Plain Pumping

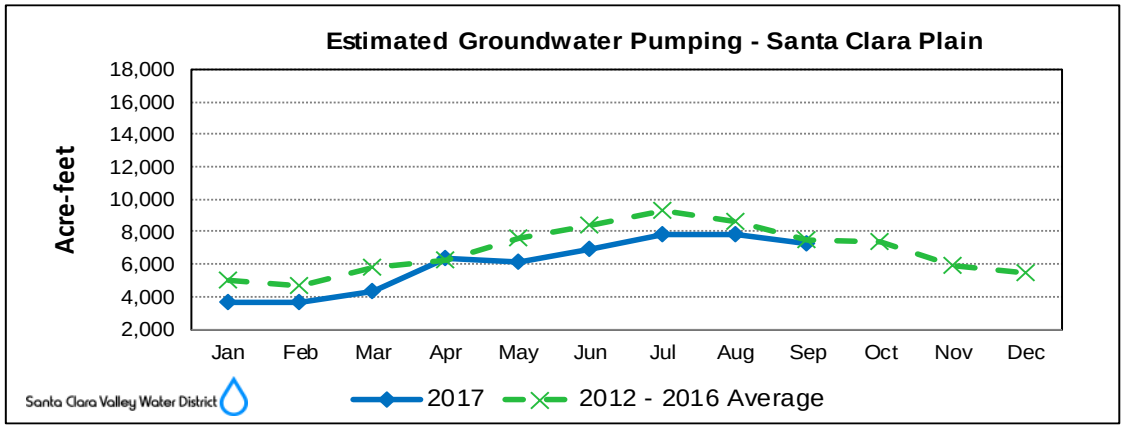


Figure 5 – Estimated Coyote Valley Pumping

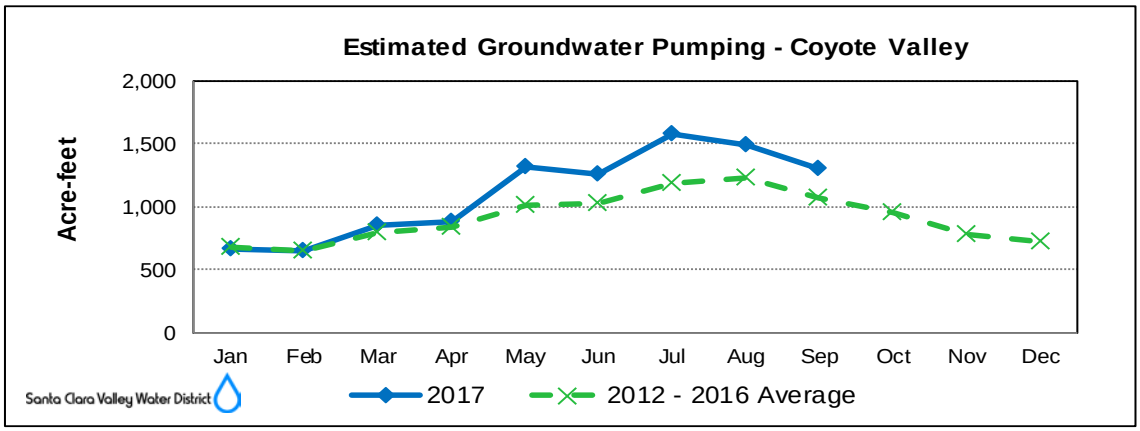
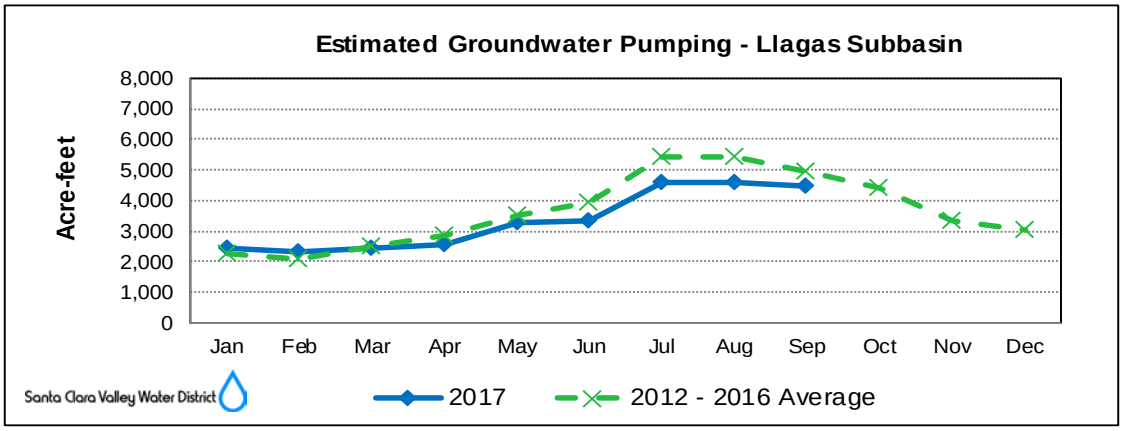


Figure 6 – Estimated Llagas Subbasin Pumping



Groundwater Levels

Groundwater levels at selected monitoring wells (Figure 7) are compared to the groundwater levels of October 1987 (a dry year), October 2004 (a normal year), and the five-year average of October measurements for 2012-2016. This information is presented in individual well groundwater hydrographs in Figures 8 through 18.

October 2017 groundwater levels were higher than September 2017 levels in six index wells, lower in three wells, and about the same in two wells. From October 2016 to October 2017, nine wells showed water level increases ranging from 1 to 11 feet, and two wells showed a water level decrease of 1 to 4.6 feet. The October 2017 levels were higher than October 2004 levels by 6 to 57 feet in 10 wells, and one well lacks 2004 data. October 2017 levels were higher than the five-year average of October measurements in all 11 wells by 8 to 33 feet. October 2017 groundwater levels were higher than October 1987 levels in all 11 index wells.

Figure 7 - Location of Selected Monitoring Wells

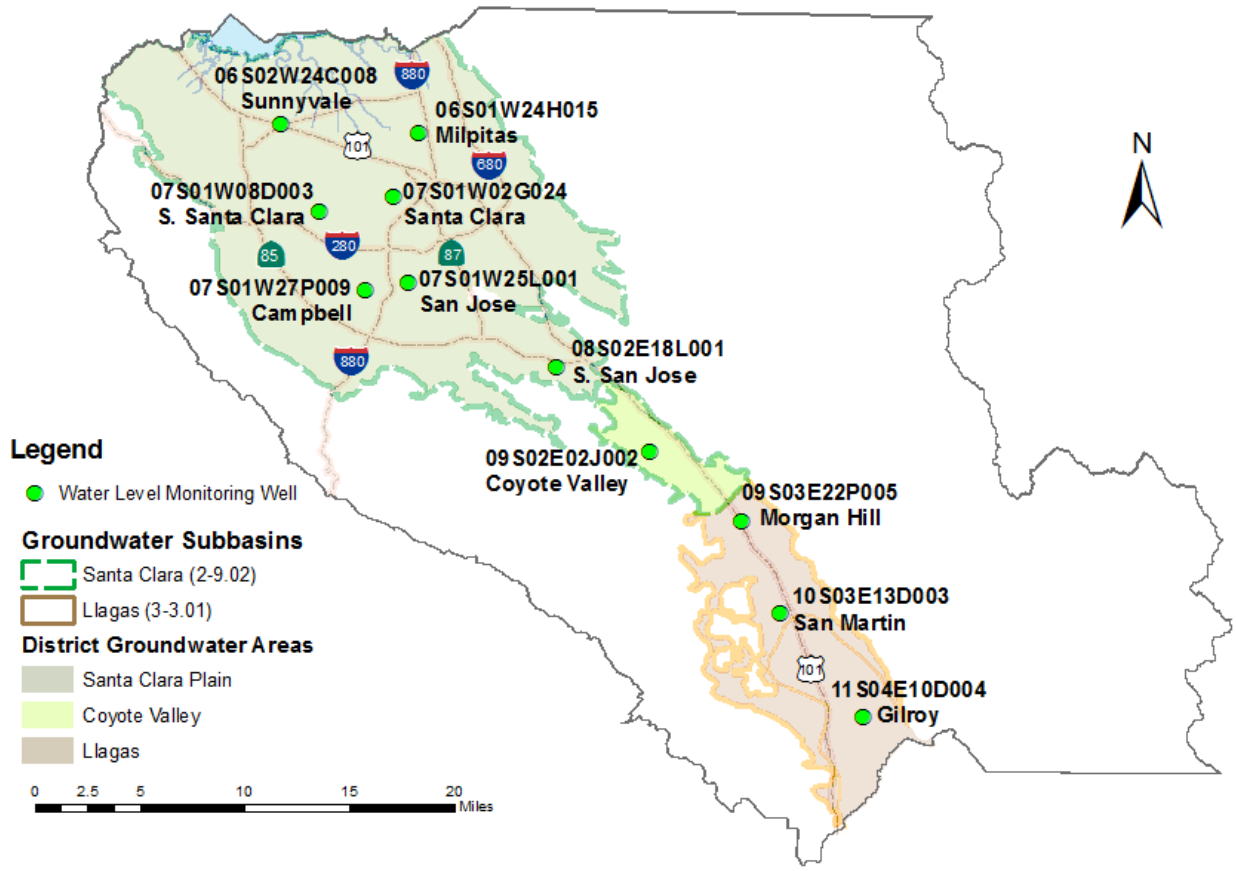


Figure 8 - Milpitas Well Hydrograph

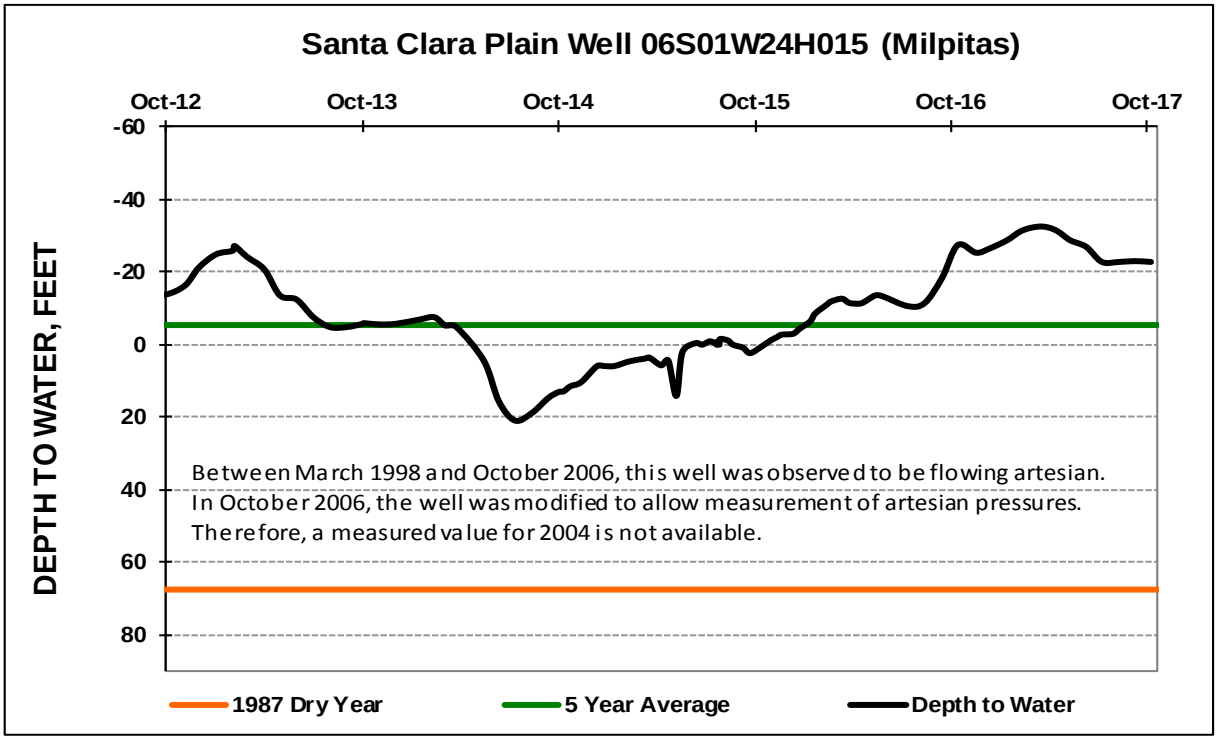


Figure 9 – Sunnyvale Well Hydrograph

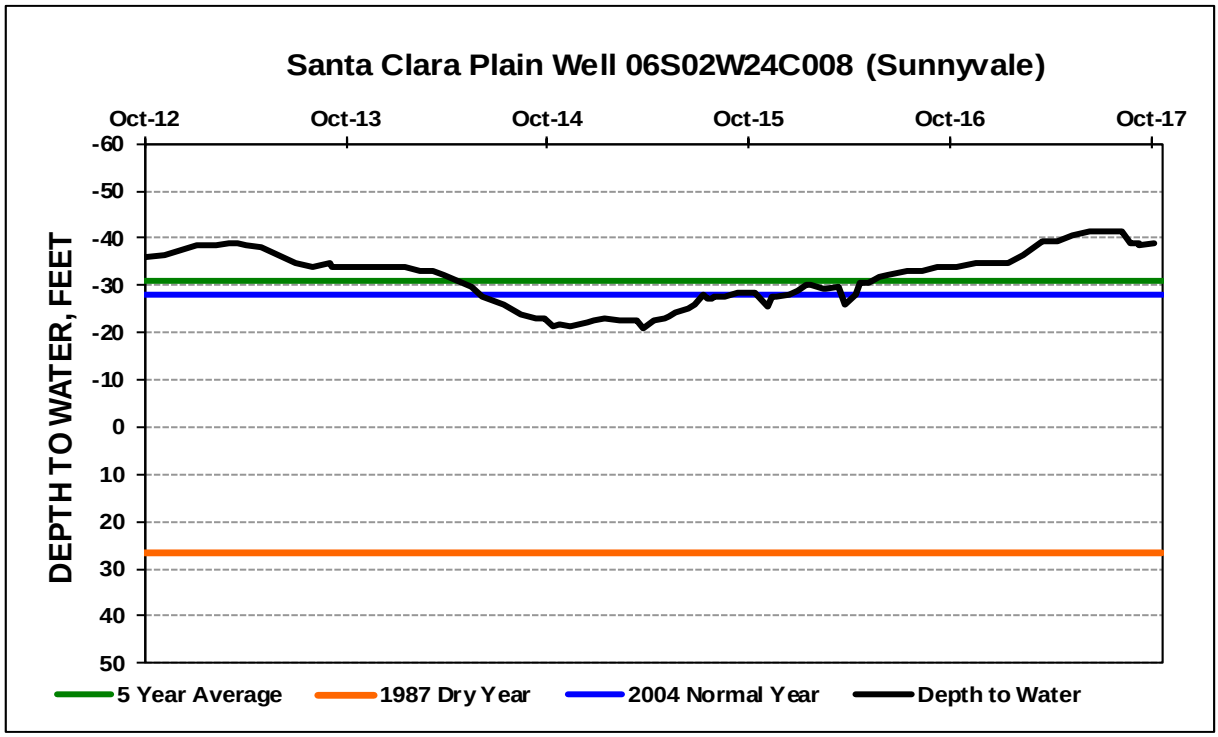


Figure 10 - San Jose Well Hydrograph

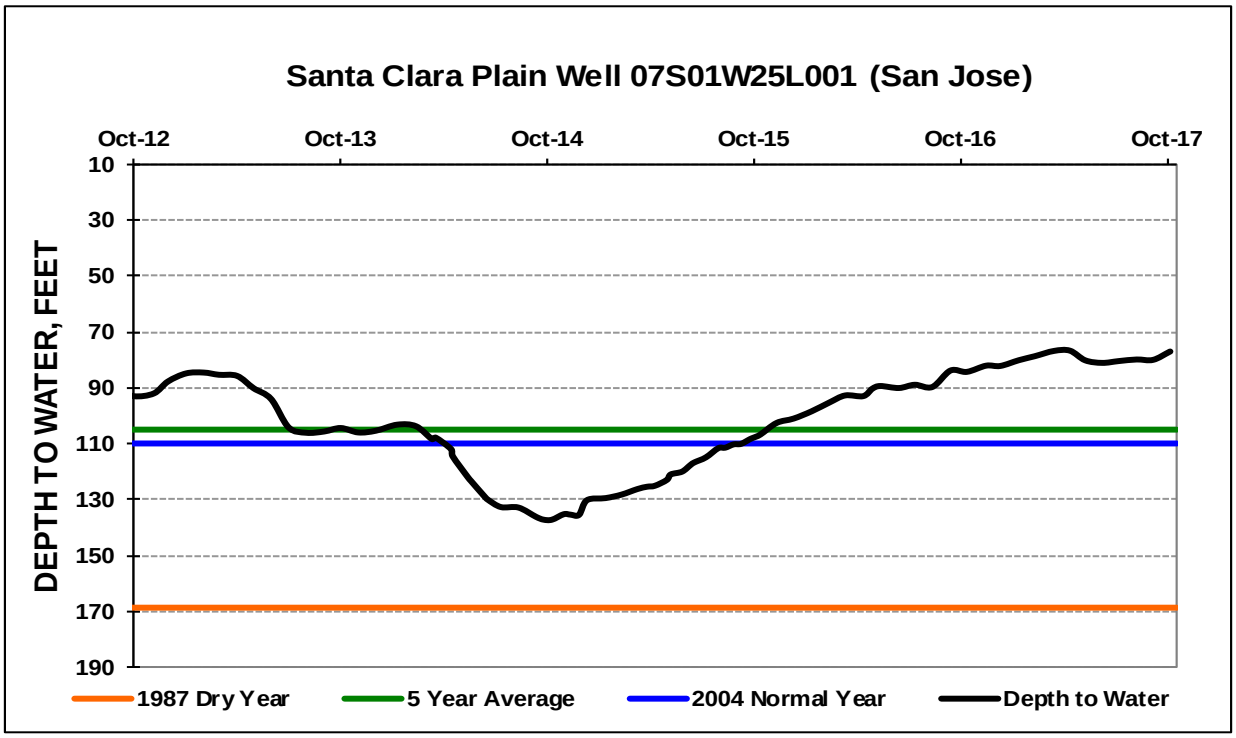


Figure 11 - Santa Clara Well Hydrograph

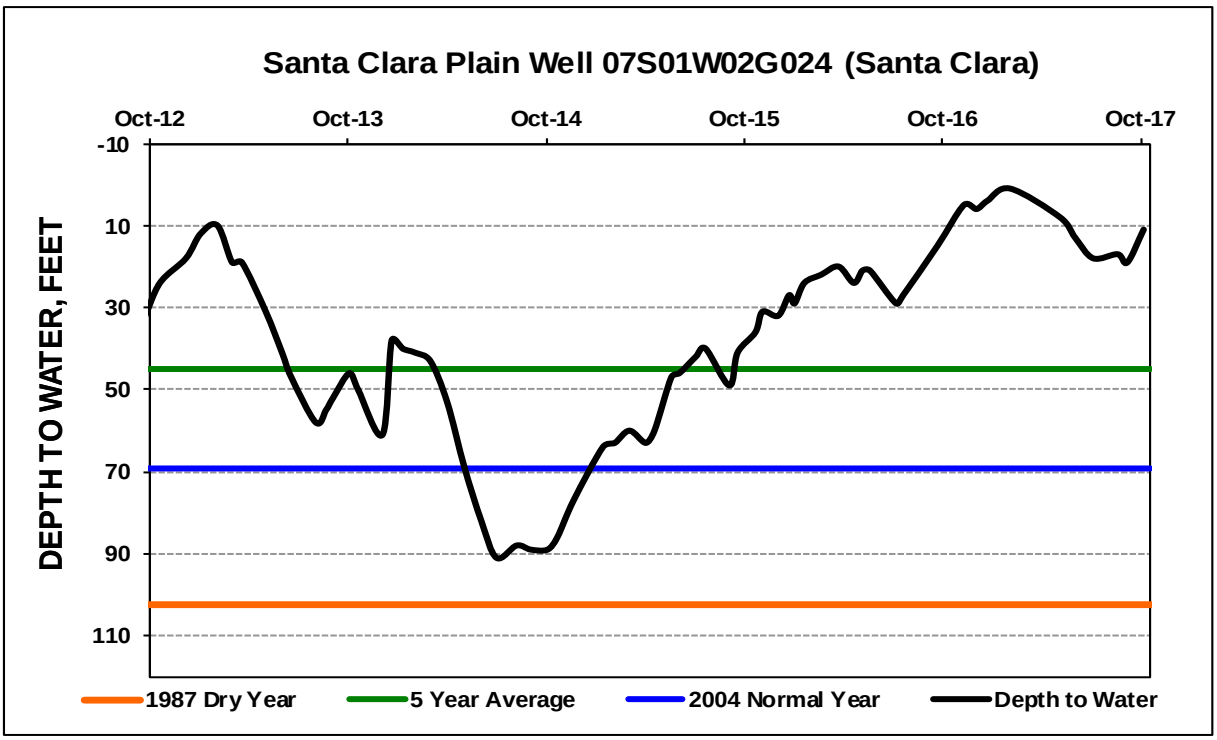


Figure 12 - South Santa Clara Well Hydrograph

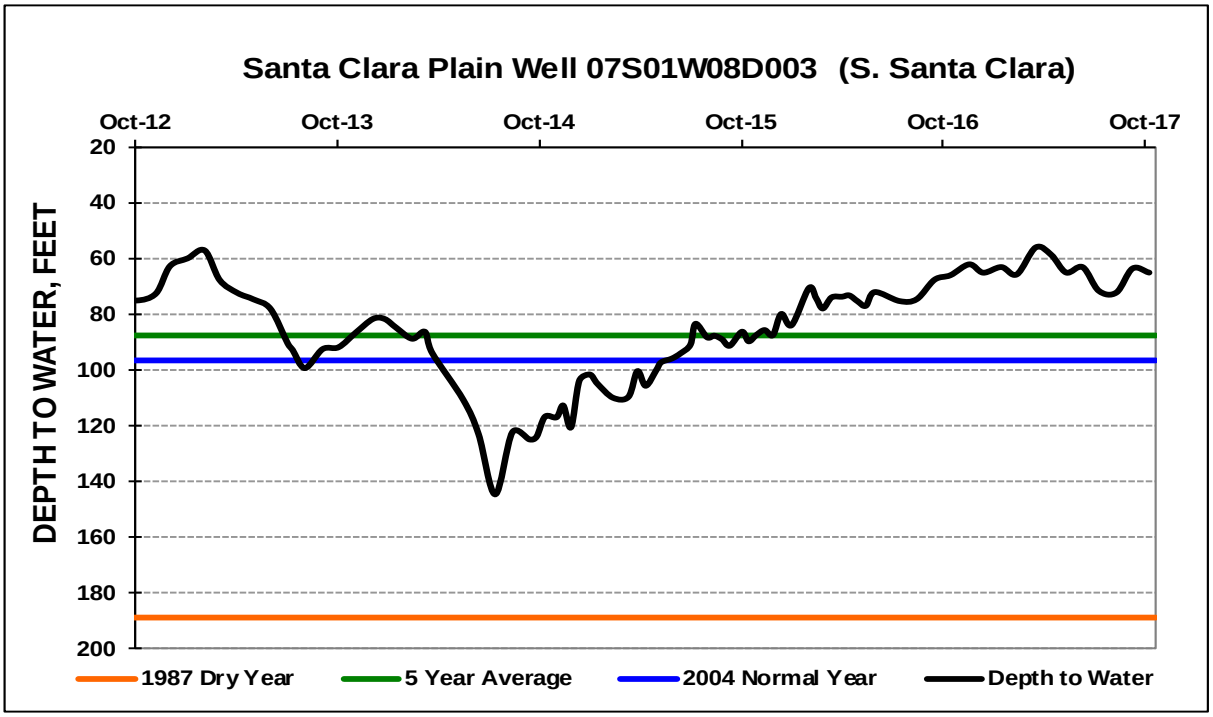


Figure 13 - Campbell Well Hydrograph

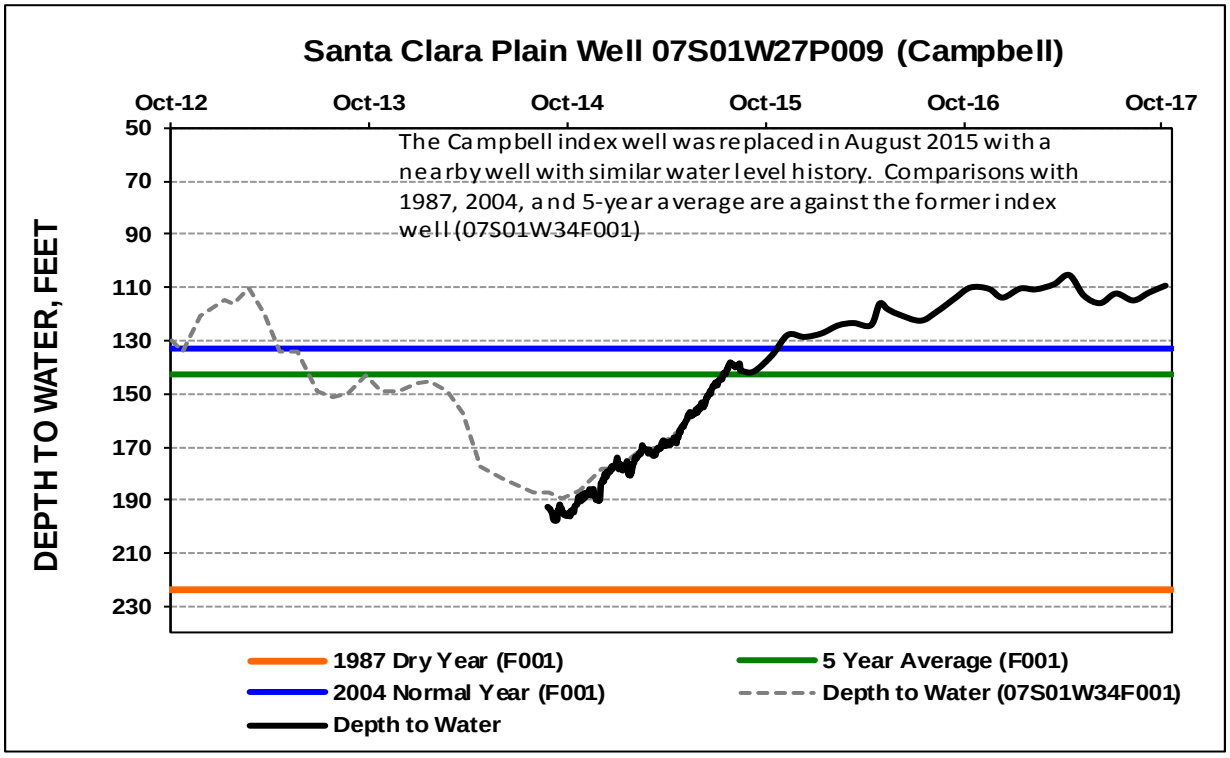


Figure 14 - South San Jose Well Hydrograph

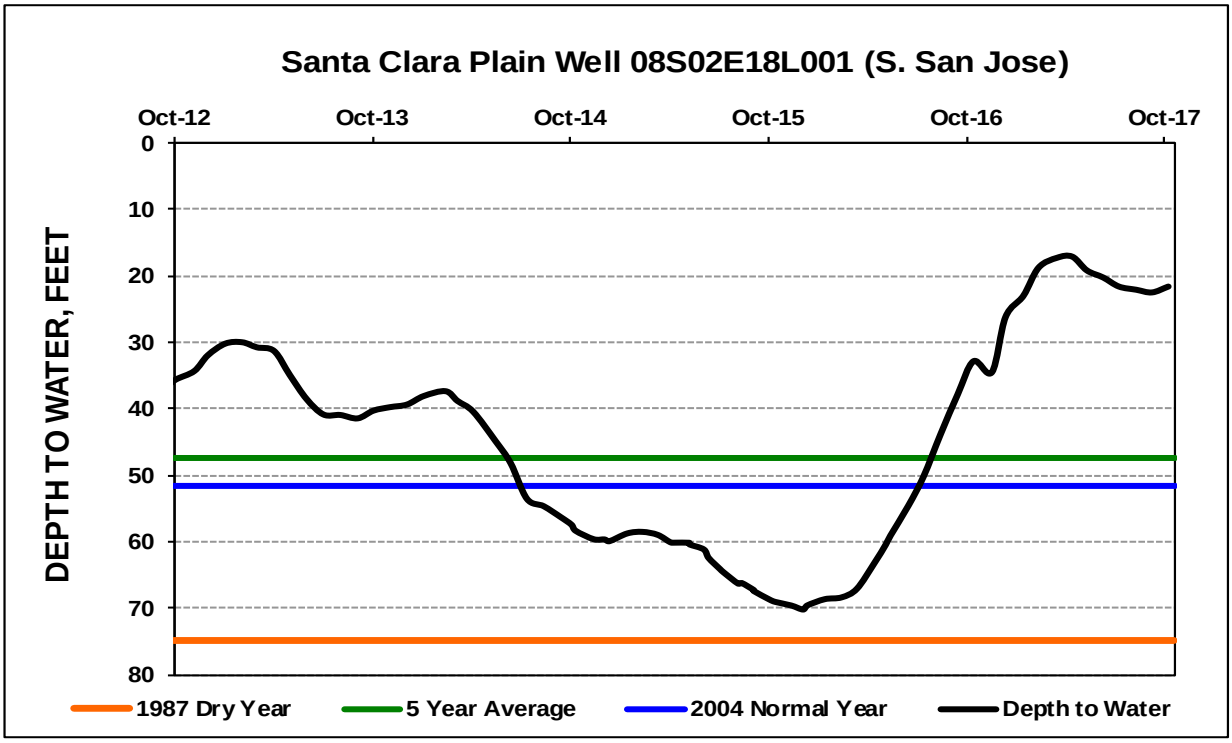


Figure 15 - Coyote Valley Well Hydrograph

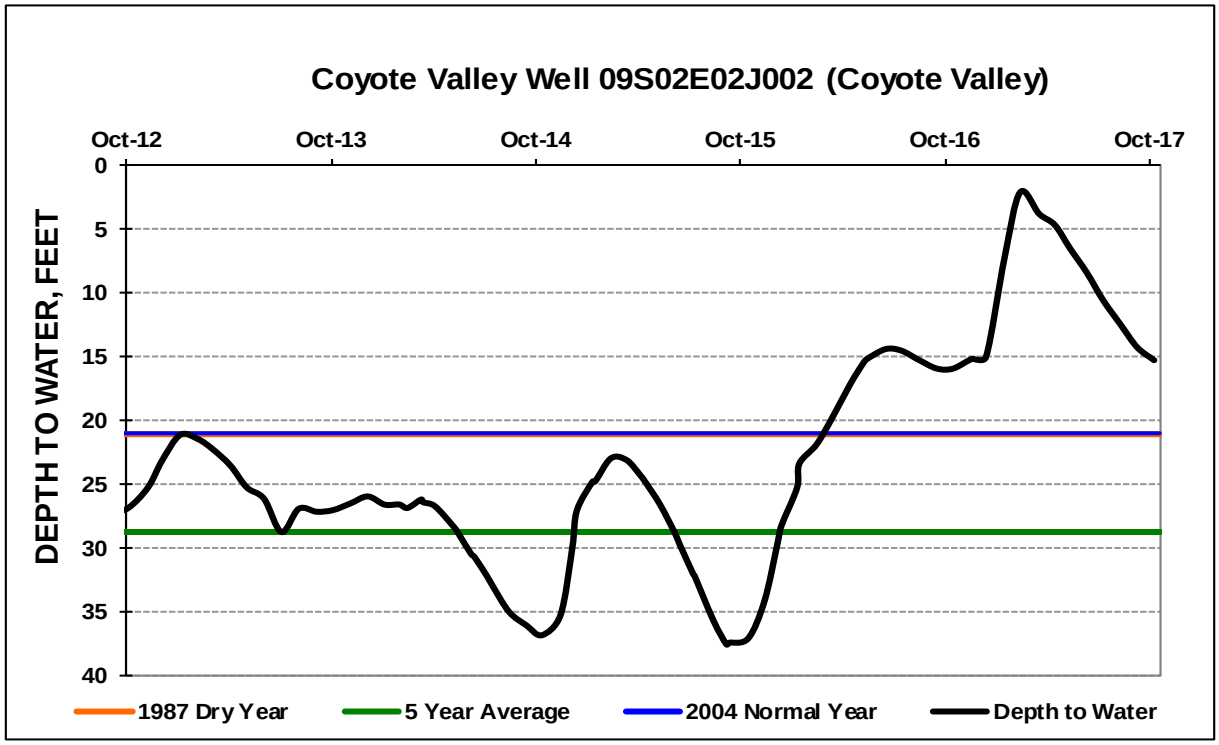


Figure 16 - Morgan Hill Well Hydrograph

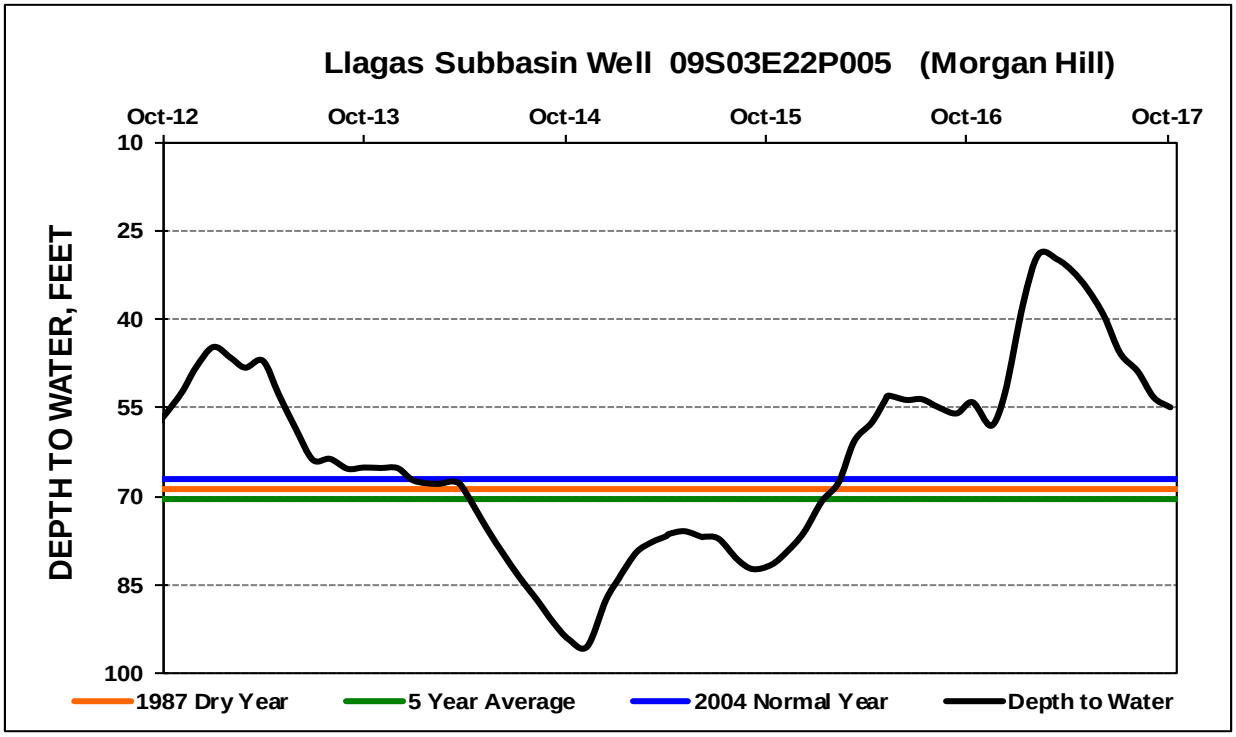


Figure 17 - San Martin Well Hydrograph

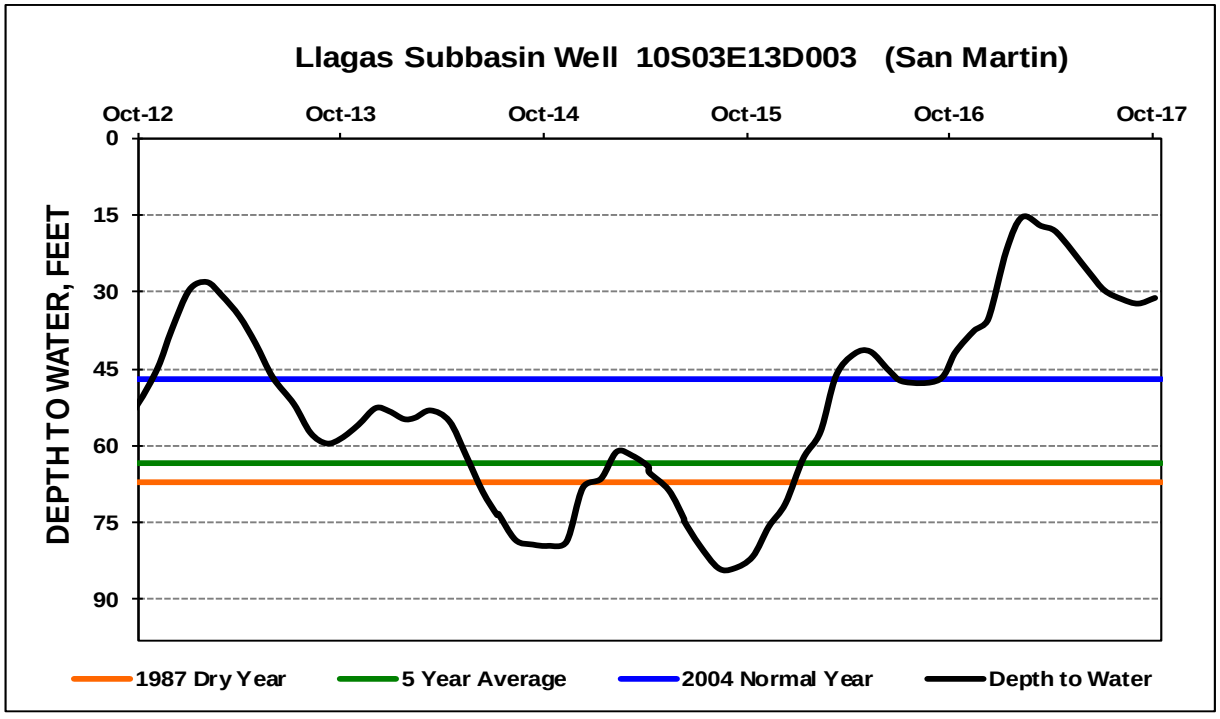
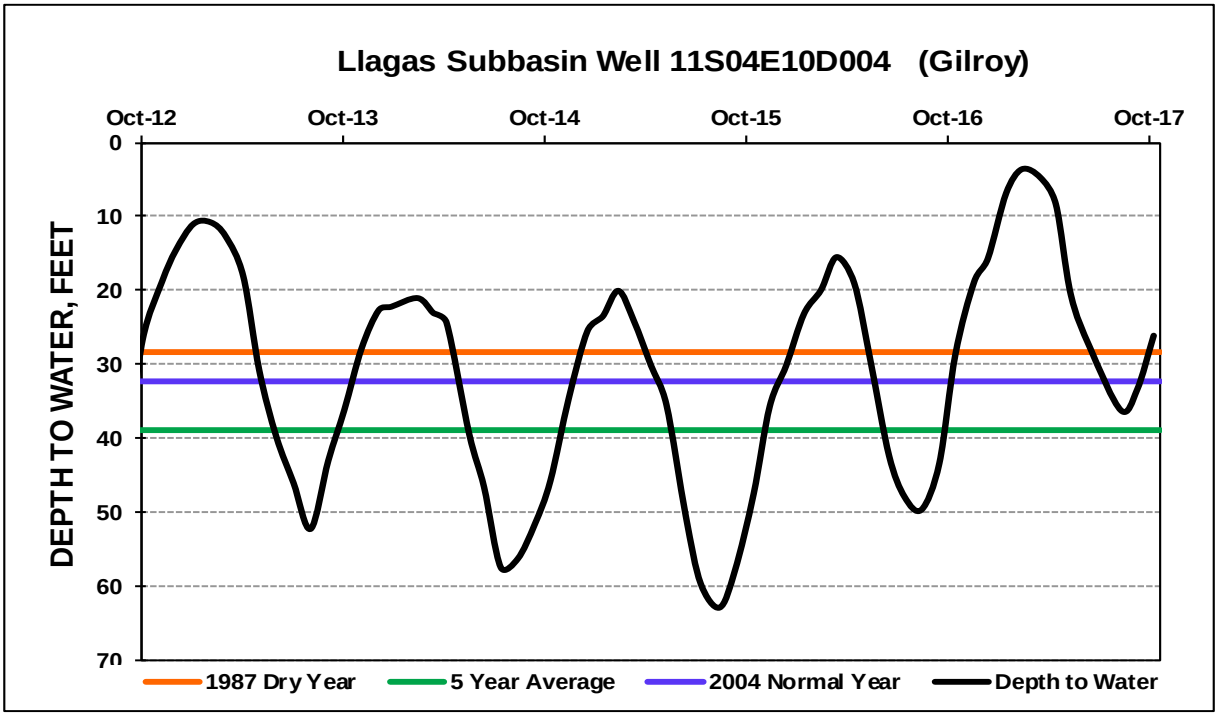



Figure 18 - Gilroy Well Hydrograph